



A
Dissertation
on
Cynanche Trachealis

By J. P. Scott
of Pennsylvania

prepared April 7, 1818

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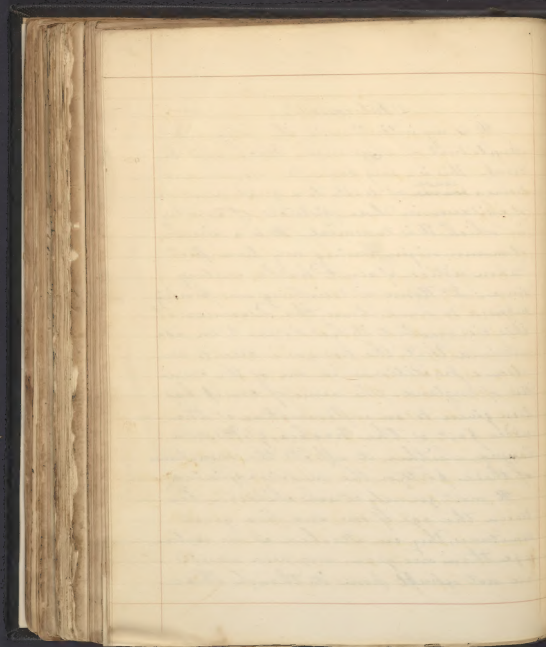
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Introduction

It is my intention, in the following essay, to treat of *Synanche trachealis* or croup. This is a very powerful disease, and proves a ~~source~~^{cause} of death to a great number of children, in those districts of country in which it is endemial. It is a disease of miasm origin, having only been first taken notice of about half a century since. Dr Home of Edinburg, was formerly supposed to have been the discoverer of this disease, but it has since been ascertained, that, the honour is due, to an obscure practitioner in one of the counties of England. The name of croup has been given to an inflammation of the upper part of the Trachea, & Lottis, and Larynx, whether, it affects the membranes of these parts, or the muscles adjoining.

It most generally attacks children, between the age of one and five years; sometimes, they are attacked at an earlier age than one year, and, even adults are not exempt from it, though these



cases are of rare occurrence. It is not of a contagious nature, though it is endemic to certain districts of country, while surrounding parts are completely exempt from the disease. Fells Point near the City of Baltimore is a striking example of this. It is there a source of death, to a vast number of children, every year, while the disease is scarcely known in the City.

Croup has been divided into spasmodic, and inflammatory. The former generally runs its course in a few hours, destroying the patient by suffocation, and on dissection, exhibits no signs of inflammation; while the latter is more protracted, and on dissection, shows that inflammation had existed. It seldom attacks children until after they are weaned, after which period the younger they are, the more liable they are to it; and after having it once, they are subject to frequent attacks, until they have passed that period of their lives which exempts them from it.

A day or two previous to an attack of this disease, the child appears anxious,

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inactive, and listless: the eyes are somewhat suffused, and heavy, with a cough, which from the first has a peculiar sound. This disease frequently comes on with the ordinary symptoms of a common catarrh, which gradually grows worse, untill it is completely developed.

The voice at this time, has a shrill ringing sound, which has been compared, to the crowing of a cock. a cough generally attends the disease; every fit of which, agitates the patient very much, the face becomes flushed: the eyes protuberant, and a general tremor takes place, attended with a convulsive effort to renew respiration at the close of each fit.

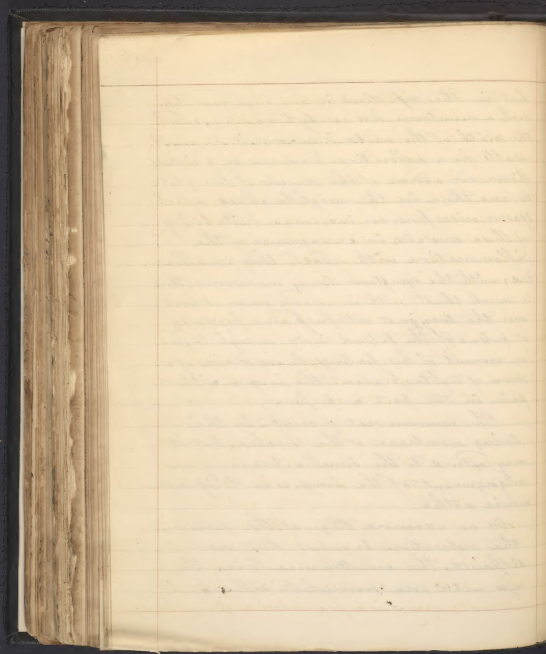
Dr. Rush says, he has often seen this croupy cough remain for several days, after all the symptoms had gone off, and then disappear, without the use of any remedies. This cough is commonly dry, and if any thing be spit up, it is matter of a purulent appearance, sometimes intermixed with films, resembling a membrane.

Much has been said by European writers, with respect to the existence of a membrane in the Larynx, and which they in the worst cases suppose to be the cause of death from suffocation.

but in the diffections in our own country, such a membrane has rarely been seen. where the death of the child is sudden, it no doubt results from suffocation, produced by a violent spasmodic action of the muscles of the glottis, and those in the neighbourhood, which spasm; arises from an increased irritability of these muscles, in consequence of the inflammation with which they are affected; with the symptoms already enumerated, there is much thirst, with an uneasy sense of heat over the body, great restlessness, and frequency of pulse. If the patient is old enough to give an account of his feelings, he complains of a sense of tightness about the Larynx, with pain in the part on pressure.

The common seat of crup is in the lining membrane of the trachea, but it may extend to the bronchia, producing an engorgement of the lungs, as in *Pneumonia notha*.

In an advanced stage of the disease, the respiration becomes still more difficult, the countenance livid, the eyes wild and somewhat suffused.



The child after some time becomes more calm. The sides small and weak, frequently a low delirium now comes on, after which reddish tumidness, and the corac have fingers of death close. The scene.

When the disease is about to terminate favourably it is by a resolution of the inflammation, by a excitation of the blood, and a free excretion of mucus, as in common catarrh.

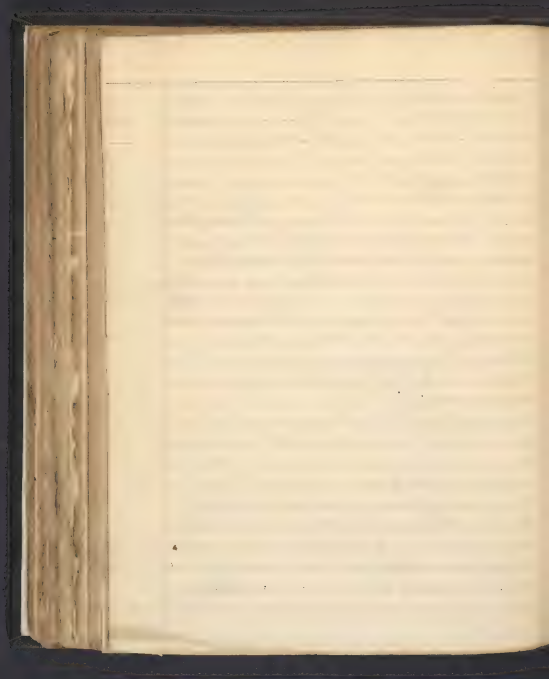
Cold is the chief exciting cause of the disease. It is most frequent during the winter and spring months, and some doctors are apt to give more value to neighbourhood than to the disease.

It has been observed to be most frequent near the sea coast, and in marshy countries, and is it known in temperate, than northern climates. Woodward in his treatise on the diseases of children, observes, that the change from milk to food more difficult & disagreeable is probably sometimes the cause of the cough. The same author, also says, that it may be occasioned by fever, or any other chronic disease that precedes the cough. The irritation produced by worms in the alimentary canal, is a frequent cause of the disease.

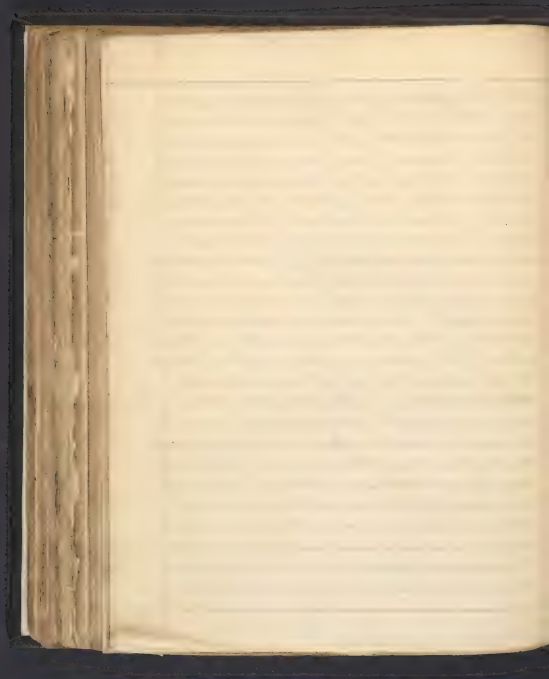


Acute Asthma is the only disease with which croup may be confounded, and which according to Thomas may be distinguished from it, by the following diagnostic symptoms. In croup the cough is shrill and ringing, whereas in Asthma there is little or no cough, in croup there is no remission; whereas in asthma it is one of the most striking phenomena of the disease, and is attended with evacuations from the stomach and bowels. In croup the pulse is strong with much febrile heat; the urine high coloured; and the voice shrill and small; in acute Asthma; the pulse although perhaps usually quick, is less full, the urine is insipid; and the voice hoarse and deep.

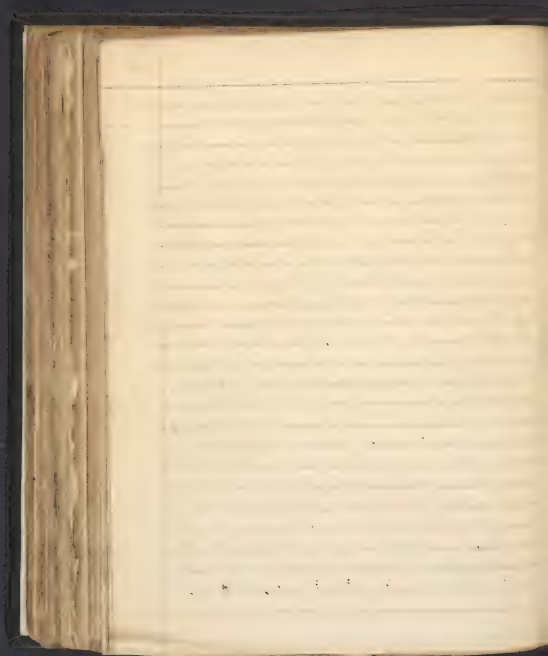
Treatment. as this is a very powerful disease, which if suffered to run its course, will in a shorter or longer period destroy the patient; it consequently becomes our duty, to make use of prompt and effective remedies, for its cure. The great fatality, with which this disease formerly prevailed, may in a great measure be attributed, to an erroneous idea, which prevailed the minds of practitioners;



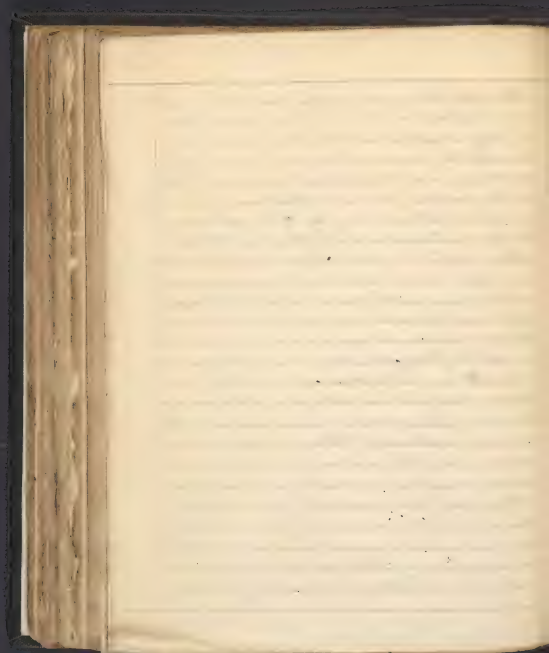
that the system of the child, was unable
 to bear the necessary depletion for its cure.
 To prove that this idea is erroneous, and the
 practice deduced from it pernicious in the
 infant; we need only refer to more modern
 practices which amply prove, that if the
 disease is attacked at an early stage, and
 before the vital energies of the child are
 weakened; it is able to bear the most copious
 depletion; and that ~~they~~ ^{children} are even more tena-
 cious of life than adults. when called in at an
 early stage of the disease, first give an anti-
 monial emetic, in ~~succession~~ ~~short~~ inter-
 vals, at the same time placing the patient
 in the warm bath for fifteen or twenty
 minutes; this if it operates, will at times
 alone relieve the distressing symptoms, if
 the emetic does not operate, it becomes neces-
 sary to bleed the patient. ~~is going~~ if the dis-
 ease still continues, use topical bleedings by
 leeches to the throat, at the same time
 applying a blister which will spread gene-
 rally to ear, where the disease is obstinate
 and refuses to yield to all these remedies.
 Next the patient, more or less in delirium



animi, this relaxsail in ameliorating all the symptoms, the respiration becoming more easy, and at the same time rendering the system susceptible to the impression of other remedies after producing this change in the system, resort to the use of calomel in large doses, so as to open the bowels effectually. If the cough is obstinate, and the expectoration difficult use the pinguis linaga as an expectorant. This practice is only applicable to the disease in its forming stage, for when the inflammation has spread to the Bronchia, there is a large quantity of mucus or phlegm secreted, producing an engorgement of the lungs, and then becomes a complete Peripneumonia notha. The treatment at this particular stage of the disease, is: first to administer an antispasmodic emetic, at the same time placing the patient in the warm bath, this produces its good effect by evacuating the mucus or phlegm from the Bronchia, and thus relieving the difficulty of respiration. As soon as the pulse will permit, take away small quantities of



Blood from the arm, at the same time watch-
 ing its effects on the system, for if taken
 in very large quantities, the system is
 immediately reduced below the point of
 reaction, and the patient sinks. If the
 pulse forbids general depletion, resort
 to topical bloodletting by cups applied to
 the spine, together with the most stimu-
 lating blisters to the thorax, such as cloths
 wrung out in hot spirits of turpentine, and
 rubbed over with powdered cantharides.
 expectorants are now to be used, to loosen off
 the mucous or phlegm, which engorges the
 lungs, the *Polygala senega* and the opium
 of squills are both serviceable in this par-
 ticular case, it has also been recommended
 to inhale the vapour of warm water with
 a small addition of ether. Calomel used in
 small dose at this particular stage of the
 disease, is also very serviceable. Dr. Hamilton
 & Crichton, think exclusively to salivate
 the cure of this disease, but more at length
 in it is, to give a dose of from one to five
 grains, according to the age of the patient
 until the breathing is manifestly relieved.



when it is to be gradually discontinued.

When none of the foregoing means prove necessary, and particularly when the dyspnea greatly increases, the operation of Tracheotomy has been recommended, as the only remaining chance of relief when the disease arises from Spasm, and the patient is in danger of being suffocated, the operation will give relief; but when a collection of mucus in the lower part of the trachea, and bronchia, is the chief obstacle to respiration, any operation which might be performed, would fail, and the only remedies on which we can rely is either gentle emetics, or expectorants.

The best means of preventing a recurrence of this disease, is the use of Tonic remedies, the cold bath, a diet easy of digestion, a strict attention to the state of the bowels; and by the use of flannel next the skin, guard the child against the causes of taking cold.

Thus gentlemen, have I finished a short practical essay on Croup: to your perusal I commit it, thinking that you will not scan it with a critic's eye, but pass its imperfections by, and believe it to be the production

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of an inexperienced writer

Wm. P. Baldwin

Small Bank 1847

